



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Johann M. Schleier-Smith : Group
Serial No: 10/743,917 : Art Unit #1734
Filed: 24 December 2003 : Examiner
Title: METHOD OF ROBOTIC : Unknown
MANIPULATION USING
FLUIDIC PATTERNING :

INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The Applicant wishes to make the following art references of record in the above-identified Patent Application pursuant to 37 C.F.R. §§ 1.97 and 1.98, and to the Duty of Disclosure set forth in 37 C.F.R. § 1.56.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject Patent Application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search was made or that no other material information, as defined in 37 C.F.R. § 1.56(b), exists.

The cited Patent references are:

| <u>Ref. No.</u> | <u>Patent No.</u> | <u>Issue Date</u> | <u>Inventor(s)</u> |
|-----------------|-------------------|-------------------|--------------------|
| A | 6,216,631 | 04/17/2001 | Wissner-Gross |
| B | 6,216,538 | 04/17/2001 | Yasuda, et al. |
| C | 6,055,859 | 05/02/2000 | Kozuka, et al. |
| D | 6,029,518 | 02/29/2000 | Oeftering |
| E | 5,951,456 | 09/14/1999 | Scott |
| F | 5,831,166 | 11/03/1998 | Kozuka, et al. |
| G | 5,711,888 | 01/27/1998 | Trampler, et al. |
| H | 5,484,537 | 01/16/1996 | Whitworth |
| I | 5,164,094 | 11/17/1992 | Stuckart |
| J | 5,006,266 | 04/09/1991 | Schram |
| K | 4,998,553 | 03/12/1991 | Schram |
| L | RE33,524 | 01/22/1991 | Schram |
| M | 4,957,606 | 09/18/1990 | Juvan |
| N | 4,879,011 | 11/07/1989 | Schram |
| O | 4,877,516 | 10/31/1989 | Schram |
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| Q | 4,743,361 | 05/10/1988 | Schram |

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| W | 5,545,367 | 08/13/1996 | Bae, et al. |

Cited Publications are:

| <u>Ref. No.</u> | <u>Description</u> |
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| AA | T.B. Benjamin and F. Ursell. The stability of the plane free surface of a liquid in vertical periodic motion. <i>Proc. R. Soc. London, Ser A</i> , 225:505-515, 1954. |
| AB | MC. Cross and P.C. Hohenberg. Pattern formation outside of equilibrium. <i>Rev. Mod. Phys.</i> , 65(3):851-1089, 1993. |
| AC | E.A. Cerda and E. Tirapegui. Faraday's instability in viscous fluids. <i>Phys. Rev. Lett.</i> , 78(5):859-862, 1997. |
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- viscoelastic coquette flow. *Phys Rev. Letter.*, 78(8):1460-1463, 1997.
- AI S. Kumar. Parametrically driven surface waves in viscoelastic liquids. *Physics of Fluids*, 11(8):1970-1981, 1999.
- AJ S. Fauve, K. Kumar, C. Laroche, D. Beysens, and Y. Garrabos. Parametric instability of a liquid-vapor interface close to the critical point. *Phys. Rev. Lett.*, 68(21):3160-3163, 1992.
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- AL S. Kumar. Mechanism for Faraday instability in viscous liquids. *Phys. Rev. E*, 62(1):1416-1419, 2000.
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- AO T. Pritchett and J.K. Kim. A low-cost apparatus for the production of surface wave patterns in a vertically oscillating fluid. *Am. J. Phys.*, 66(9):830-833, 1998.
- AP Uri Raviv, Pierre Laurat, and Jacob Klein. Fluidity of water confined to subnanometre films. *Nature*, 413:51-54, 2001.
- AQ P.B. Umbanhowar, F. Melo, and H.L. Swinney. Localized excitations in a vertically vibrated granular layer. *Nature*, 382(29):793-796, 1996.
- AR Chen Weizhong and Wei Ronjue. Primary instabilities in Faraday waves under an arbitrarily periodic excitation. *Phys. Rev. E*, 57(4):4350-4353, 1998.
- AS Xinlong Wang, and Ronjue Wei. Oscillatory patterns composed of parametrically excited surface-wave solitons. *Phys. Rev. E*, 57(2):2405-

MR1859-18
Serial Number: 29/191,145

2410, 1998.

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Amplitude measurements of Faraday waves. *Phys. Rev. E*, 63(036305): 1-9,
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- AU Mary Silber and Anne C. Skeldon. Parametrically excited surface waves:
Two-frequency forcing, normal form symmetries, and pattern selection.
Phys. Rev. E, 59(5):5446-5456, 1999.

This Information Disclosure Statement is being filed more than three months
subsequent to the Filing Date of the subject Patent Application, but before the mailing of
a first Office Action.

A Form PTO-1449 and copies of the references are submitted along with this
document. It is requested that the Examiner consider the references and make them of
record in the above-referenced Patent Application.

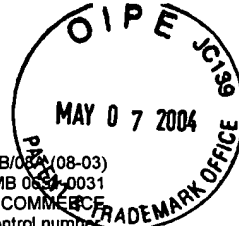
Respectfully submitted,
FOR: ROSENBERG, KLEIN & LEE



David I. Klein
Registration #33,253

Dated: *6 May 2004*

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PTO/SB/08-03

Approved for use through 07/31/2006. OMB 0534-0031

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Substitute for form 1449/PTO

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(Use as many sheets as necessary)

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| | |
|------------------------|--------------------------|
| Application Number | 10/743,917 |
| Filing Date | 24 DECEMBER 2003 |
| First Named Inventor | Johann M. Schleier-Smith |
| Art Unit | 1734 |
| Examiner Name | |
| Attorney Docket Number | MR1735-83/DIV |

Sheet 1 of 5

U. S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| . | A | US- 6,216,631 | 04/17/2001 | Wissner-Gross | |
| . | B | US- 6,216,538 | 04/17/2001 | Yasuda, et al. | |
| . | C | US- 6,055,859 | 05/02/2000 | Kozuka, et al. | |
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| . | I | US- 5,164,094 | 11/17/1992 | Stuckart | |
| . | J | US- 5,006,266 | 04/09/1991 | Schram | |
| . | K | US- 4,998,553 | 03/12/1991 | Schram | |
| . | L | US- RE33,524 | 01/22/1991 | Schram | |
| . | M | US- 4,957,606 | 09/18/1990 | Juvan | |
| . | N | US- 4,879,011 | 11/07/1989 | Schram | |
| . | O | US- 4,877,516 | 10/31/1989 | Schram | |
| . | P | US- 4,759,775 | 07/26/1988 | Peterson, et al. | |
| . | Q | US- 4,743,361 | 05/10/1988 | Schram | |
| . | R | US- 4,693,879 | 09/15/1987 | Yoshimura, et al. | |
| . | S | US- 4,612,018 | 09/16/1986 | Tsuboi, et al. | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ⁶ |
|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ³ *Number ⁴ *Kind Code ⁵ (if known) | | | | |
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| Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Complete if Known | |
| | | | | Application Number | 10/743,917 |
| | | | | Filing Date | 24 DECEMBER 2003 |
| | | | | First Named Inventor | Johann M. Schleier-Smith |
| | | | | Art Unit | 1734 |
| | | | | Examiner Name | |
| | | | | Attorney Docket Number | MR1735-83/DIV |
| Sheet | 2 | of | 5 | | |

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| Examiner Signature | Date Considered |
|-----------------------|--------------------|

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| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | AA | T.B. Benjamin and F. Ursell. The stability of the plane free surface of a liquid in vertical periodic motion. PROC. R. SOC. LONDON, SER A, 225:505-515, 1954. | |
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| NON PATENT LITERATURE DOCUMENTS | | | |
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